

## CONFIDENTIAL/US OFFICIALS ONLY

50X1-HUM

Station "B" Turbo-Generators - 3 Units (350 psi - 750 F)

1 - 22,500 kw BTH

2 - 20,000 kw Metro-Vicks

Station "C" Turbo-Generators - 1 Unit (1,200 psi - 920 F)
1 - 15,000 kw AEG (topping unit, exhausting into 200 psi station steam line)

Current converting equipment for supply to DC-auxiliaries

3 - 750 kw Metro-Vicks rotary converter

1 - 750 kw BTH motor converter

#### SERVICE AND PHYSICAL DATA (31 December, 1948)

## SUMMARY

#### Service

Customers	1		126,277
Population Served			2,500,000
Area Served	Square	Miles	21
Connected Load	-	kw	484,733
Generating Station, Nameplate	:		-
Capacity		kw	198,500
Generating Station, Instantaneous	:		
Peak Load		: kw	173,184
Generating Station, Annual Output to			
Feeders		Ku hr	961,231,000
Load Factor, Yearly		- %	73.05
	:		

# Personnel

SPC & WDPC	3,307
Distribution Department only	927

## Physical Property - Distribution Department

### 23 kv Transmission System:

Underground Lines	Miles	270.5
Overhead Lines	Circuit Miles	2.1
Substations	Equipped Buildings	10
Transformers	1 p and 3 p Units	47
Transformers	kVA	201,500
Oil Circuit Breakers in		
Substations	3 Ø Units	88

## 6.6 kV Distribution System

Underground Lines				1		Miles	205.2
Overhead Lines			Ci	rc	uı	t Miles	63.6
Substations				٠.	Al	l Types	253
Transformers - Indoor	1.	ø	and	3	ø	Units	272
Transformers - Pole Mounting	1	ø	and	3	ø	Units	224
Transformers - Outdoor,		•			٠.		
Ground Level	1	ø	and	3	ø	Units	70
Transformers - Total						Units	70 566 216,617.5
Transformers - Total		٠.			٠.	kVA	216,617.5
Transformers - Consumers'							• • •
Property	1	ø	and	.3	ø	Units	288
Transformers - Consumers		•			•		
Property						kVA	161,255
Oil Circuit Breakers in				i			•
Substations				3	ø	Units	774
Power Fuses on Overhead					•		
Lines	2	ø	and	3	ø	Units	320

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380 Volt Distribution System:	• • •	•	
Underground Lines Overhead Lines	Circuit	Miles	52.8 616.0
Oil Circuit Breakers in	CITCUIL	MITER	010.0
Substations	3 ø	Units	257
Power Fuses (Over 200 amperes	- ,		
capacity only)	3 Ø	Units	343
Change Idahedian Contons			
Street Lighting System:			
Lamps	•	Units	11,384
Lines	Circuit	Miles	611.4
Plant for Power Factory Correction and DC Traction:			
Synchronous Motors and Generators	;	Units	7
Synchronous Motors and Condensers		kVA	31,000
DC Generators and Rotary Converters		Units	8
DC Generators and Rotary Converters		kW Units	5,250
Mercury Arc Rectifiers Mercury Arc Rectifiers		UNIUS kW	2 x 3 800
Static Condensers		kVA	15,837
Circuit Breakers Protective and Supervisory System:			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Overcurrent Inverse Time Limit Rela		Units	836
Overcurrent Time Lag Fuse Protection		Units	1,908
Balance Protection Instantaneous Re	lays	Units	<del>6</del> 96
Alarm Relays		Units	55
Remote Tripping Circuits		Units	5
Automatic Telephone System:	•		
Telephone Overhead and Underground Telephone Instruments	Lines	Miles Units	81.43 419

All data include the Western District Power Company of Shanghai.

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